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*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: **MUTANT FORMS OF GLUTAMATE RECEPTORS MGLUR2 AND MGLUR3**

(57) Abstract: The present invention is directed to mutant forms of mGluR2 and mGluR3 that are shown to affect the binding of modulators of said receptors. The invention discloses polypeptides comprising the mutations, and nucleic acid sequences that encodes said polypeptides, and methods of using said polypeptides and nucleic acids sequences to identify, predict and evaluate specific, selective modulators whose association to mGlu2 or mGluR3 is effected by said mutations.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/28470

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07K 14/705; C12N 15/12; G01N 33/567

US CL : 435/7.21, 69.1, 252.3, 320.1; 350/350; 536/23.5

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.21, 69.1, 69.7, 252.3, 320.1; 436/501; 530/350; 536/23.4, 23.5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PERROY et al. The C Terminus of the Metabotropic Glutamate Receptor Subtypes 2 and 7 Specifies the Receptor Signaling Pathways. The Journal of Biological Chemistry. 07 December 2001, Vol. 276, No. 49, pages 45800-45805.	1-42
A	MARY et al. A Cluster of Basic Residues in the Carboxyl-terminal Tail of the Short Metabotropic Glutamate Receptor 1 Variants Impairs Their Coupling to Phospholipase C. The Journal of Biological Chemistry. 02 January 1998, Vol. 273, No. 1, pages 425-432.	1-42
A	US 6,017,697 A (BURNETT, JR. et al.) 25 January 2000 (25.01.2000) see entire document.	1-42



Further documents are listed in the continuation of Box C.



See patent family annex.

<p>* Special categories of cited documents:</p>		<p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p>	
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 872-9306	Authorized officer Valerie Bell-Harris for John D. Ulm Telephone No. (571) 272-1600

INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

Searched STN/MEDLINE for "glutimate", "receptor", "chimer?"

Searched U.S. Pats, Geneseq, PIR 78, SwissProt and SPTREMBL for SEQ ID NO:8.